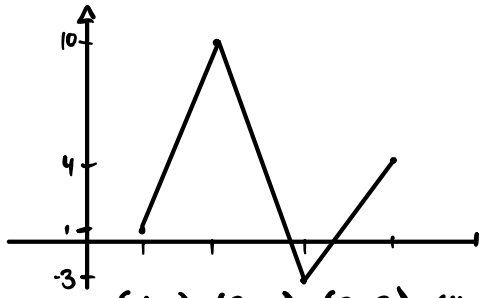
① $x=[1,10,-3,4]$



$\{(1,1),(2,10),(3,-3),(4,4)\}$

② Nodes

$N=10 \quad [1,4] \qquad t_k = a + \left(\frac{b-a}{n}\right)k$

$t_0 = 1 + \left(\frac{4-1}{10}\right)(0) = 1$
$t_1 = 1 + \left(\frac{3}{10}\right)(1) = 1.3$
$t_2 = 1 + \left(\frac{3}{10}\right)(2) = 1.6$
$t_3 = 1 + \left(\frac{3}{10}\right)(3) = 1.9$

③ Thresholding

a) $x=[1,3,5,-2]$, $r=3$

$y=[0,3,5,0]$

$x=[0,3,5,-2] \quad r=3$

$Y=[0,3,5,0]$

b.) $\% = \frac{100(m-k)}{m} : \frac{100(4-2)}{4} = 50\%$

$100\left(\frac{3-2}{3}\right) = 100\left(\frac{1}{3}\right) = 33\%$

c.) Compression : m/k : $4/2 = 2:1$